

INTERNATIONAL SEARCH REPORT

International Application No

PCT/E 8/08109

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K7/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 700 804 A (BRYANS JUSTIN STEPHEN ET AL) 23 December 1997 (1997-12-23) cited in the application claims 1,4	4
A	ALAN R. KATRITZKY ET AL : "Conjugated systems derived from piperazine-2,5-dione" JOURNAL OF HETEROCYCLIC CHEMISTRY., vol. 25, March 1988 (1988-03), pages 591-597, XP002263044 PROVO US cited in the application page 591, left-hand column; examples 5,17	1,4
A	US 3 761 477 A (MOHRBACHER R ET AL) 25 September 1973 (1973-09-25) claim 1; table I	1,4
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

3 December 2003

Date of mailing of the international search report

22/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Voyiazoglou, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 08109

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BROWN, RACHEL ET AL: "Four dioxopiperazines produced by a variant of Streptomyces noursei" retrieved from STN Database accession no. 62:16977 XP002263045 abstract & N.Y. STATE DEPT. HEALTH, ANN. REPT. DIV. LAB. RES. (1963) 66-8,	1,4
A	EP 0 313 305 A (PROCTER & GAMBLE) 26 April 1989 (1989-04-26) claims 1,3	1,4
A	DE 100 13 318 A (MERCK PATENT GMBH) 20 September 2001 (2001-09-20) claims 1,6,8	1,4
A	EP 0 416 837 A (RICHARDSON VICKS INC) 13 March 1991 (1991-03-13) cited in the application claims 1,11	1,4
A	EP 0 403 812 A (BAYER AG) 27 December 1990 (1990-12-27) cited in the application claims 1,9; example 1	1,4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 93/08109

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5700804	A	23-12-1997	AT 162186 T	15-01-1998
			AU 693420 B2	02-07-1998
			AU 4726493 A	15-03-1994
			AU 678172 B2	22-05-1997
			AU 4726593 A	15-03-1994
			BG 99495 A	29-12-1995
			BG 99496 A	29-12-1995
			BR 9306904 A	08-12-1998
			BR 9306905 A	08-12-1998
			CA 2141938 A1	03-03-1994
			CA 2141939 A1	03-03-1994
			CZ 9500381 A3	13-09-1995
			CZ 9500383 A3	18-10-1995
			DE 69316370 D1	19-02-1998
			DE 69316370 T2	16-07-1998
			DK 655060 T3	09-02-1998
			EP 0655060 A1	31-05-1995
			EP 0672036 A1	20-09-1995
			ES 2111169 T3	01-03-1998
			FI 950616 A	13-04-1995
			FI 950617 A	13-04-1995
			WO 9404512 A1	03-03-1994
			WO 9404513 A1	03-03-1994
			GB 2284602 A ,B	14-06-1995
			GB 2284420 A ,B	07-06-1995
			GR 3026272 T3	30-06-1998
			HU 71592 A2	29-01-1996
			HU 71593 A2	29-01-1996
			JP 8504175 T	07-05-1996
			JP 8504176 T	07-05-1996
			NO 950529 A	05-04-1995
			NO 950530 A	11-04-1995
			PL 307437 A1	29-05-1995
			PL 307438 A1	29-05-1995
			SK 19495 A3	08-11-1995
			SK 19595 A3	13-09-1995
			ZA 9305968 A	16-02-1995
			ZA 9305969 A	16-02-1995
US 3761477	A	25-09-1973	DE 2215117 A1	04-10-1973
			CA 925872 A1	08-05-1973
			GB 1268916 A	29-03-1972
			US 3901885 A	26-08-1975
			US 3928347 A	23-12-1975
			US 3901886 A	26-08-1975
			US 4046763 A	06-09-1977
			US 3865826 A	11-02-1975
EP 0313305	A	26-04-1989	AT 177939 T	15-04-1999
			AT 176396 T	15-02-1999
			AU 629518 B2	08-10-1992
			AU 2408588 A	27-04-1989
			CA 1334008 C	17-01-1995
			DE 3856302 D1	18-03-1999
			DE 3856302 T2	09-09-1999
			DE 3856315 D1	29-04-1999
			DE 3856315 T2	14-10-1999
			EP 0313305 A2	26-04-1989

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP/08109

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0313305	A		EP 0496433 A2	29-07-1992
			EP 0496434 A2	29-07-1992
			JP 1265018 A	23-10-1989
			JP 2897832 B2	31-05-1999
			KR 166576 B1	15-01-1999
			NZ 226667 A	25-11-1993
			NZ 240058 A	25-11-1993
			US 5487884 A	30-01-1996
DE 10013318	A	20-09-2001	DE 10013318 A1	20-09-2001
			AU 3743301 A	24-09-2001
			WO 0168047 A2	20-09-2001
			EP 1267819 A2	02-01-2003
			JP 2003526650 T	09-09-2003
			US 2003207886 A1	06-11-2003
EP 0416837	A	13-03-1991	US 5087445 A	11-02-1992
			AU 6225490 A	14-03-1991
			BR 9004454 A	10-09-1991
			CA 2024884 A1	09-03-1991
			CN 1050500 A	10-04-1991
			EP 0416837 A1	13-03-1991
			IE 903263 A1	13-03-1991
			JP 3148213 A	25-06-1991
			MX 170224 B	11-08-1993
			PH 26914 A	03-12-1992
			PT 95240 A	22-05-1991
EP 0403812	A	27-12-1990	DE 3918178 A1	06-12-1990
			DE 59009391 D1	17-08-1995
			EP 0403812 A2	27-12-1990
			EP 0602009 A2	15-06-1994
			JP 3027383 A	05-02-1991
			US 5164496 A	17-11-1992